

**IN THE CLAIMS**

Pursuant to 37 CFR §1.121(c), the claim listing, including the text of the claims, will serve to replace all prior versions of the claims, in the application.

Please amend claims 8, 9 and 10, and add dependent claims 11 and 12, as follows:

Claims 1-5. (Canceled)

1           6. (Previously Presented) An electromechanical lock cylinder, comprising:  
2                     an outer shell having a bore formed therein and a cavity extending from the  
3     bore into the shell;  
4                     a barrel disposed within the bore in the shell and being rotatable relative  
5     thereto;  
6                     a side bar cooperating between the shell and the barrel for selectively  
7     permitting and blocking rotation of the barrel with respect to the shell, the side bar having  
8     a first portion engaging the barrel and a second portion removably received in the cavity in  
9     the shell, the side bar being movable relative to the barrel;  
10                    wherein at least one electromechanical locking member is disposed within the  
11     barrel and is positionable in a barrel blocking position blocking rotation of the barrel with  
12     respect to the shell, and also is positionable in a non-barrel blocking position permitting the  
13     side bar to be moved relative to the cavity in the shell to rotate the barrel with respect to the

shell;

an electronically powered drive mechanism located within the barrel and cooperating with the electromechanical locking member to selectively move the locking member from the barrel blocking position to the non-barrel blocking position in which the side bar moves out of the cavity and engages the locking member; and

control means for activating the electronically powered drive mechanism in response to an authorized attempt to operate the lock cylinder.

7. (Previously Presented) A lock cylinder according to claim 6, wherein the first portion of the side bar is an outer edge and the second portion is an opposite inner edge, and when the at least one locking member is in said barrel blocking position the outer edge of the side bar is received in the cavity formed in the shell, and wherein the at least one locking member has a groove which receives the inner edge of the side bar when the at least one locking member is in said non-barrel blocking position.

8. (Currently Amended) A rotatable lock barrel for insertion into a lock cylinder having a bore formed therein, the barrel comprising:

an elongated, generally cylindrically shaped barrel member having an exterior configured for receipt in a bore of a lock cylinder and an interior containing an electromechanical locking member, the barrel member having a recess formed therein;

wherein the locking member is disposed in the recess of the barrel member and is

substantially entirely contained within the barrel member, the locking member including a groove and the locking member being movable to a position in which the groove of the locking member is placed in an alignment;

the recess in said barrel member ~~being configured to receive at least a portion of a movable side bar of a lock cylinder to~~ permitting the side bar to move into and out of engagement with the groove of the locking member for selectively permitting and blocking rotation of the barrel member with respect to a lock cylinder when positioned therein; and

an electronically powered drive mechanism located within the barrel member for moving the electromechanical locking member to a position in which the groove of the locking member is in said alignment.

9. (Currently Amended) A process of retrofitting a mechanical cylinder lock to form an electromechanical cylinder lock, the process comprising steps of:

providing a mechanical cylinder lock including an outer shell with a bore having a recess accommodating movement by a side bar, and a first rotatable barrel located in the bore[,], ~~preventing and permitting rotation of the barrel within the bore in the shell;~~

removing the first barrel from the shell;

providing an electronically powered rotatable barrel ~~having an exterior adapted to substantially correspond to the bore in the shell, and~~ including:

a side bar preventing and permitting rotation of the barrel within the bore in the shell;

11 ~~an at least one~~ electromechanical locking member disposed in the barrel  
12 substantially entirely contained within the barrel member, the  
13 electromechanical locking member being positionable to permit the side bar  
14 to engage the locking member in a non-barrel blocking position which permits  
15 the barrel to rotate with respect to the shell, and the electromechanical locking  
16 member also being positionable to place the sidebar in a barrel blocking  
17 position which blocks rotation of the barrel with respect to the shell; and

18 an electronically powered drive mechanism cooperating with the  
19 electromechanical locking member to selectively move the locking member  
20 from the barrel blocking position to the non-barrel blocking position in which  
21 the side bar engages the locking member to rotate the barrel and operate the  
22 lock; and

23 a controller carried by the barrel energizing the electronically powered  
24 drive mechanism in response to an authorized attempt to open the lock; and

25 inserting securing the electronically powered rotatable barrel ~~in into~~ the bore in the  
26 shell to form an electromechanical cylinder lock~~[[,]] the lock including control means carried~~  
27 ~~by at least one of the barrel and bore for energizing the electronically powered drive~~  
28 ~~mechanism in response to an authorized attempt to open the lock.~~

1 10. (Currently Amended) A rotatable lock barrel for insertion into a lock cylinder  
2 having a bore formed therein, the barrel comprising:

3 an elongated, generally cylindrically shaped barrel member having an exterior  
4 configured for receipt in a bore of a lock cylinder and an interior containing a plurality of an  
5 electromechanical locking ~~members~~ member, the barrel member having a recess formed  
6 therein;

7 wherein the locking ~~members are~~ member is disposed in the recess of the barrel  
8 member and ~~are is~~ substantially entirely contained within the barrel member, ~~each of the~~  
9 locking ~~members~~ member including a groove ~~and the locking members being movable to a~~  
10 ~~position in which the grooves of the locking members are aligned;~~

11 the recess in said barrel member ~~being configured to receive at least a portion of a~~  
12 ~~movable side bar of a lock cylinder to permitting~~ the side bar to move into and out of  
13 engagement with the ~~grooves~~ groove of the locking ~~members~~ member for selectively  
14 permitting and blocking rotation of the barrel member with respect to a lock cylinder when  
15 positioned therein;

16 an electronically powered drive mechanism located within the barrel member ~~for~~  
17 moving the electromechanical locking ~~members~~ member to a position in which the ~~grooves~~  
18 groove of the locking ~~members are~~ member is aligned to receive the side bar.

1 11. (New) The process of claim 9, the process comprising steps of providing at  
2 least one additional electromechanical locking member disposed in the barrel, the additional  
3 electromechanical locking member being also positionable to permit the side bar to engage  
4 the locking member in a non-barrel blocking position which permits the barrel to rotate with

5       respect to the shell.

1               12. (New) The rotatable lock barrel of claim 10, comprising at least one additional  
2       electromechanical locking member substantially entirely contained within the barrel  
3       member, the additional locking member including a groove and being movable to a position  
4       in which the grooves of the locking members are aligned to permit the side bar to engage the  
5       locking member in a non-barrel blocking position which permits the barrel to rotate with  
6       respect to the shell.